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Inventor(s): MORISHITA KEIICHI; KATO MASAKI; YASUI MASAYUKI;
YAMASHITA RIICHIRO; ITO SADASHI

Applicant(s): MITSUBISHI HEAVY IND LTD; KORYO ENG KK

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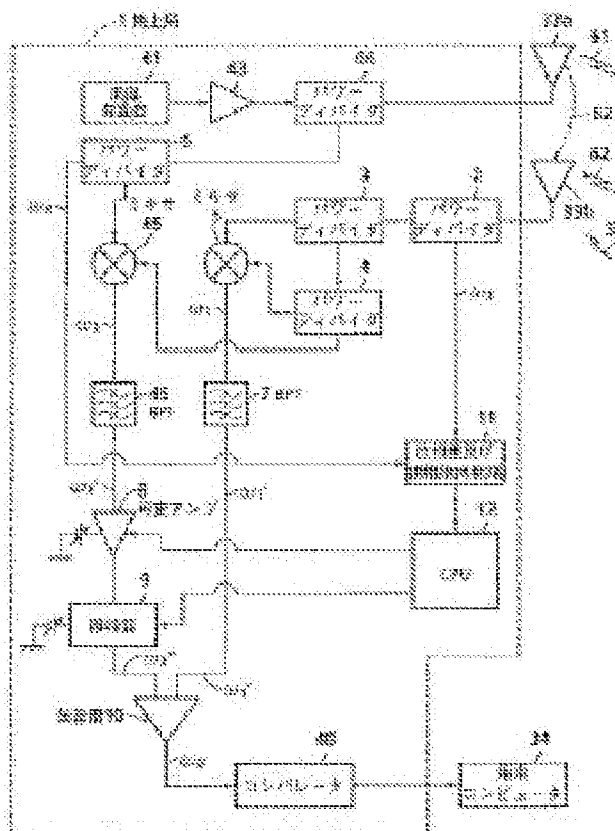
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Abstract of JP 5290226 (A)

PURPOSE: To secure normal communication regardless of the position of a traveling object in a non-contact IC card device which recognizes the traveling object by obtaining information concerning the traveling object by radio-communicating between a non-contact IC card provided for the traveling object and a ground station.

CONSTITUTION: The receiver of the ground station is provided with power dividers 2 to 4 detecting a wave in the same phase, a mixer 5 and a mixer 45 detecting a wave separately from the mixer 5. The receiver is also provided with a phase difference/amplitude detection circuit 11, a controller (CPU) 12, a variable amplifier 8 and a shifter 9 so as to automatically control the phase and the amplitude of detection output. Besides, the receiver is provided with an adder 10 adding the detection outputs of two systems.; Thus, when the adder 10 adds two signals, the influence of phase change based on the position of the traveling object is cancelled and the signals are normally demodulated.



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